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(54) METHOD FOR GENERATING AND RECORDING SEARCH INFORMATION OF RECORDING DIGITAL DATA STREAM

(57) Abstract:

PURPOSE: A method for generating and recording the search information of a recording digital data stream is provided to rapidly and exactly search a recording data stream corresponding to a search request time by reading and using search information for a stream object end time.

CONSTITUTION: An STMAP_GI(Stream Time Map General Information) is composed of an MAPU_SZ (Minimum Mapping Unit Size) field, an MTU_SHFT (Mapping Time Unit Shift) field, an MAPL_ENT_NS (Number of Mapping List Entries) field, an S_S_APAT

(Stream Start APAT) field, an S_E_APAT(Stream End APAT) field, an S_S_PTS(SOB Start PTS) field and an S_E_TIME(SOB End Time). The MAPU_SZ field indicates the size of an SOBU(Stream Object Unit). The MTU_SHFT field indicates a weight value for the unit time of the SOBU. The MAPL_ENT_NS field indicates the quantity of a mapping list. The S_S_APAT field indicates the arrival time of a packet corresponding to the first stream of the SOB. The S_E_APAT field indicates the arrival time of a packet corresponding to the last stream of the SOB. The S_S_PTS field indicates program clock reference information corresponding to an SOB start stream. The S_E_TIME indicates time information for an SOB end time.

STMAP_GI		
MAPU_SZ	Minimum Mapping Unit Size	2 Bytes
MTU_SHFT	Mapping Time Unit Shift	1 Byte
S_S_PTS	SOB Start PTS	1 Byte
S_E_TIME (S_O_TIME)	SOB End Time (SOB Duration Time)	1 Byte
MAPL_ENT_NS	Number of Mapping List Entries	4 Bytes
S_S_APAT	Stream Start APAT	8 Bytes
S_E_APAT	Stream End APAT	8 Bytes

(a)

APAT		
APAT	Incremental APAT	2 Bytes

(b)

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